RxBatch – Batch Operations for RxNorm and NDF-RT APIs

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RxBatch¹ is a web interface for doing batch operations with the RxNorm and NDF-RT APIs. Notable features include:

- *Functional Composition*. Instead of a single API function, a pipeline of functions to be executed in sequence can be specified. Any combination of interoperable functions from the *RxNorm* and *NDF-RT* APIs^{2,3} is permitted. *RxBatch* automatically ensures the interoperability of functions in the sequence.
- Batch processing. Rather than a single value, the pipeline of selected functions can operate on a list of input values, specified by a file or entered interactively. Submitted jobs are distributed on multiple servers, and users can track the progress of their job. Users are informed via email of the location of the results.
- Interactive mode. RxBatch allows users to interactively test and display results for small data sets.

RxBatch allows users to create complex queries without ad hoc programming. With the capability of using two APIs together, a greater domain of problems can be easily solved. Complex operations can be run with a single submission, freeing up the resources of the user for other operations.

The RxNorm and NDF-RT APIs are part of the RxNav suite of APIs. The RxNorm API provides functionality to access the RxNorm data set, including mapping from identifiers of other drug vocabularies and identification of clinical and branded drug concepts through a set of named relationships. The NDF-RT API contains functionality to access the hierarchy of data associated with ingredients and clinical drugs of NDF-RT data set.

³ http://rxnav.nlm.nih.gov/NdfrtAPI.html

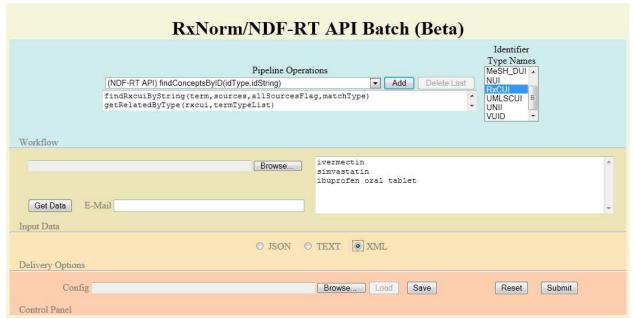


Figure 1 — Sample Screen Shot of RxBatch Application

¹ http://rxbatch.nlm.nih.gov

² http://rxnav.nlm.nih.gov/RxNormAPI.html